

**Compliance Date for Existing  
Sources: August 22, 2004**

## COMPLIANCE TIMELINE

**December 20, 2001:** Deadline for submitting an initial notification to EPA.

3

**August 22, 2004:** Begin collecting data needed to demonstrate compliance (e.g., HAP content and monthly material consumption data).

3

**August 22, 2005:** Determine compliance based on previous 12 months of data.

3

**September 21, 2005:** Deadline for submitting a notification of compliance status.

3

At the end of every month, determine compliance based on the previous 12 months of data.

3

**March 1, 2006:** Deadline for submitting first semi-annual compliance report for the 12-month period ending December 31, 2005.

## FOR MORE INFORMATION

The final rule was published in the *Federal Register* on August 22, 2001. Copies of the rule and other material are at  
[www.epa.gov/ttn/atw/boat/boatpg.html](http://www.epa.gov/ttn/atw/boat/boatpg.html)

You can also contact your regional EPA office at the following number:

Region	Lead	Phone
I	Susan Lancey (CT, MA, ME, NH, RI, VT)	617-918-1656
II	Umesh Dholakia (NJ, NY, PR)	212-637-4023
III	Makeba Morris (DE, MD, PA, VA, WV District of Columbia)	215-814-2187
IV	Leonardo Ceron (FL, NC, SC, KY, TN, GA, AL, MS)	404-562-9129
V	Noel Vargas — (IL & IN) Tanya Boomer — (MI & WI) Nathan Frank — (MN, OH)	312-353-3575 312-353-4145 312-886-3850
VI	Toni J Allen (AR, LA, NM, OK, TX)	214-665-7271
VII	Richard Tripp (IA, KS, MO, NE)	913-551-7566
VIII	Tami Thomas-Burton (CO, MT, ND, SD, UT, WY)	303-312-6581
IX	Christine Vineyard (CA, AZ, HI, NV)	415-744-1197
X	Kai-Hon Shum (AK, ID, WA, OR)	206-553-2117



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[www.epa.gov/ttn/atw/boat/boatpg.html](http://www.epa.gov/ttn/atw/boat/boatpg.html)

Office of Air Quality Planning & Standards (MD-12)

## REGULATIONS CONTROLLING AIR EMISSIONS FROM **THE BOAT MANUFACTURING INDUSTRY**



Photo courtesy of Brunswick Boat Group

## NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP)

*New EPA air emission standards may affect your fiberglass or aluminum boat manufacturing operation. This rule may affect the materials and methods that you use to build boats.*

## YOU ARE AFFECTED IF...

- ! You manufacture hulls or decks for recreational boats made from fiberglass or aluminum AND
- ! You are a major source of Hazardous Air Pollutants (HAPs). A major source emits 10 tons/year of one HAP or 25 tons/year of all HAPs combined.

## WHAT OPERATIONS ARE COVERED?

- U Resin and gel coat operations
- U Aluminum coatings on hulls and decks
- U Cleaning solvents
- U Carpet and fabric adhesives

## WHAT ARE THE BENEFITS?

- ! Reduced HAP emissions (predominately styrene, methyl methacrylate, methylene chloride, toluene, xylene and n-hexane) from 119 facilities by a total of approximately 3,130 tons annually.
- ! The long-term effects of these HAPs may include damage to the central nervous system with symptoms such as headache, fatigue, weakness, sleeping disturbances and reproductive effects. Short-term effects may include irritation of the skin, eyes and mucous membranes.
- ! All the control requirements are based on cost-effective pollution prevention techniques.
- ! Provides a cleaner and healthier work environment.

## WHAT AM I REQUIRED TO DO?

For each operation, you must meet the organic HAP content limit specified below:

Operation	Organic HAP Content Limit
Production resin applied with spray equipment	28% by weight*
Production resin applied with non-spray equipment	35% by weight*
Pigmented production gel coat	33% by weight*
Clear production gel coat	48% by weight*
Tooling resin applied with spray equipment	30% by weight*
Tooling resin applied with non-spray equipment	39% by weight*
Tooling gel coat	40% by weight*
Resin and gel coat equipment cleaning solvents	5% by weight
Resins applied by closed molding	No limits apply
Aluminum boat surface coatings and wipedown solvents	1.55 kg HAP per liter coating solids from all combined coatings*
Carpet and fabric adhesives	5% by weight

\*Compliance with these emission limits is determined on a weighted-average basis over a 12-month period.

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## HOW DO I DEMONSTRATE COMPLIANCE?



For fiberglass boat resin and gel coat

**operations, you may determine compliance using one or more of the following options:**

- ! Purchase materials that meet the organic HAP content requirement.
- ! Meet the HAP content requirements for resin and gel coat operations on a weighted-average basis.
- ! Use emissions averaging among different resin and gel coat operations.
- ! Use an add-on control device.

**For aluminum boat painting operations, demonstrate compliance by doing the following:**

- ! Limit the organic HAP content of the paints and other coatings.
- ! Limit the organic HAP content of the wipedown solvents for surface preparation.
- ! Use paint spray gun cleaning solvents that contain no more than 5 percent organic HAP or use the solvent in a way that captures the cleaning solvent and minimizes emissions.

**For carpet and fabric adhesive operations, use materials that contain no more than 5 percent organic HAP.**